

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7807	360/75.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 13:14
L2	569	(702/127).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 13:14
L3	2	(L1 or L2 ) and ((center or vector) near4 (gravity or gravitation\$2)).clm.	US-PGPUB	OR	ON	2007/09/18 13:14
L4	1	(L1 or L2 ) and (actuator or mass or load or coordinate or component or balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2)) . clm.	US-PGPUB	OR	ON	2007/09/18 13:15
L5	1	(center with gravity with (coordinate or x with y with (axis or component)) same (pivot or rotation\$3 or rotatable or rotating) near5 (shaft or rod) same y with (axis or component) with (track or arm or actuator)). clm.	US-PGPUB	OR	ON	2007/09/18 13:16
L6	2	(center with gravity with (coordinate or x with y with (axis or component)) same (pivot or rotation\$3 or rotatable or rotating) near5 (shaft or rod) ).clm.	US-PGPUB	OR	ON	2007/09/18 13:16
S1	448	(702/127).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 09:54
S2	31	((("4,214,481") or ("4,262,536") or ("4,310,892") or ("5,267,110") or ("5,319,509") or ("5404,636") or ("5444,583") or ("5835,302") or ("5854,721") or ("5867,348") or ("6225,799") or ("6324,890") or ("6344,942") or ("6453,722") or ("6,563,661"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:23
S3	2	"20010038508"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:33
S4	22	(S1 or S2 or S3) and gravity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:19

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S5	2	(S1 or S2 or S3) and gravitation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/02 10:37
S6	42	actuator same (balanc\$3 or unbalance or imbalance) and (center or vector) near4 (gravity or gravitation\$2) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:26
S7	605	(actuator or mass or load) same (balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2) or x near6 y) with (coordinate or component)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 09:55
S8	605	(actuator or mass or load) same (balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2) or x near6 y) with (coordinate or component)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:21
S9	86	S8 and (first with (x near8 y or coordinate) same second with (x near8 y or coordinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:02
S10	22	S9 and (center or vector) near4 (gravity or gravitation\$2) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:26
S11	42	S9 and (center or vector) near4 (gravity or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:33
S12	33	S9 and (center or vector) near4 (gravity or gravitation\$2) with (x near8 y or coordinate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 15:07
S13	16	("5208497"   "5477304"   "5537186"   "5815246"   "5959427"   "5982128"   "6028376"   "6246204"   "6252370"   "6255795"   "6255796"   "6262796"   "6323935"   "6329780"   "6337484"   "6525803").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 14:48

## EAST Search History

S14	5	S13 and (center or vector) near4 (gravity or gravitation\$2) with (x near8 y or coordinate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 14:49
S15	0	("7034920").URPN.	USPAT	OR	OFF	2007/06/08 14:58
S16	4	(center or vector) near4 (gravity or gravitation\$2) with (x near8 y) with coordinate near3 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:11
S17	25	(center or vector) near4 (gravity or gravitation\$2) with coordinate near3 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 15:39
S18	4588	(center or vector) near4 (gravity or gravitation\$2) with (coordinate or (x near9 y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:20
S19	494	S18 and (actuator or mass or load) same (balanc\$3 or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 12:22
S20	109	S18 same (actuator or mass or load) same (balanc\$3 or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 14:11
S21	0	("00422.3").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 14:11
S22	248	(84/422.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/11 14:11
S23	134	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center or vector) near4 (gravity or gravitation\$2) with coordinate near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 16:08

## EAST Search History

S24	136	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center or vector) near4 (gravity or gravitation\$2) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:23
S27	0	("6053033").URPN.	USPAT	OR	OFF	2007/06/12 10:04
S28	1	("4428225").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:04
S29	5	("4428225").URPN.	USPAT	OR	OFF	2007/06/12 10:10
S30	255	center near4 mass with (coordinate near4 system)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:12
S31	40	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center) near4 (mass) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:31
S32	108	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center) near4 (gravity) with (coordinate or x with y) near8 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:13
S33	37	("20020133174"   "20030033024"   "20030045888"   "20030050733"   "4837734"   "5187796"   "5297149"   "5515478"   "5524180"   "5553198"   "5645520"   "5649956"   "5657429"   "5754741"   "5762458"   "5815640"   "5841950"   "5847359"   "5855583"   "5878193"   "5907664"   "5911036"   "5971976"   "5986651"   "6001108"   "6007550"   "6063095"   "6102850"   "6132441"   "6202004"   "6244809"   "6304050"   "6309397"   "6436107"   "6463361"   "6496099"   "6699177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:37
S34	0	S32 and S33	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:38
S35	0	S30 and S33	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 10:38
S36	0	("7164968").URPN.	USPAT	OR	OFF	2007/06/12 12:20

## EAST Search History

S37	2930	voice near3 coil near3 motor with current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 12:22
S38	33	S37 and (actuator or mass or load) same (balance or unbalance or imbalance) with current	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 14:58
S39	0	center near4 (imbalance or unbalance) with coordinate near4 systems	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 14:59
S40	0	center near4 (imbalance or unbalance) with coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 14:59
S41	0	center near4 (imbalance or unbalance) with coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:02
S42	3	center near4 (imbalance or unbalance) with coordinate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:01
S43	1549	center near4 (imbalance or unbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:01
S44	11	center near4 (imbalance or unbalance) same coordinate near4 system	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:03
S45	12	center near4 (imbalance or unbalance) with x with y	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:03

## EAST Search History

S46	371	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 (center) near4 (gravity) with plane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:40
S47	67	S46 and (actuator or mass or load) same (balanc\$3 or unbalance or imbalance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:05
S48	10	multiply\$3 near4 mass with actuator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 15:14
S49	8	actuator same (unbalance or imbalance) with center near4 (gravity or gravitation\$2) with mass	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 15:30
S50	3	(unbalance or imbalance) with center near4 (gravity or gravitation\$2) with mass with multiply\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:20
S51	1164	(calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass) with (coordinate or x with y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:18
S52	24855	actuator same disc with drive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:15
S53	9	S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:16
S54	89	S52 and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:19

## EAST Search History

S55	47	(unbalance or imbalance) and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:41
S56	36	(unbalance or imbalance) same actuator and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 17:51
S57	453	actuator same (disc or drive) and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 22:34
S58	453	actuator same (disc or drive) and (calculat\$3 or comput\$3 or determin\$3 or estimat\$3 or produc\$3) near4 center near4 (gravity or mass or gravitation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 22:36
S59	2	"20010038508"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 13:18
S60	7708	360/75.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 09:53
S61	106	S60 and gravity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 11:19
S62	7807	360/75.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 09:53
S63	569	(702/127).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/18 09:54

## EAST Search History

S64	29	(S62 or S63 ) and (actuator or mass or load or coordinate or component or balanc\$3 or unbalance or imbalance) same ((center or vector) near4 (gravity or gravitation\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 13:15
S65	57	(S62 or S63 ) and ((center or vector) near4 (gravity or gravitation\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 13:14
S66	1	(center with gravity with (coordinate or x with y with (axis or component)) same (pivot or rotation\$3 or rotatable or rotating) near5 (shaft or rod) same y with (axis or component) with (track or arm or actuator)).clm.	US-PGPUB	OR	ON	2007/09/18 13:16
S67	2	(center with gravity with (coordinate or x with y with (axis or component)) same (pivot or rotation\$3 or rotatable or rotating) near5 (shaft or rod) ).clm.	US-PGPUB	OR	ON	2007/09/18 13:16